Appl. No. 10/723,738 Amendment dated January 30, 2006 Reply to Office Action of September 30, 2005

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1. (currently amended): A process for the treatment of waste gas wherein the waste gas is contacted with a zeolite Y which has a unit cell size of 24.17-24.45 Å and a water adsorption capacity (p/p0 = 0.2, T=25°C) of at most 5 wt.%, said zeolite Y having a <u>bulk</u> silica-alumina molar ratio of at least 40.
- 2. (currently amended): The process of claim 1 wherein the waste gas is engine exhaust gas, in particular exhaust gas from a diesel or gasoline engine.
- 3. (previously presented): The process of claim 1, wherein the zeolite functions as an adsorbent which adsorbs organic hydrocarbons at a low temperature and desorbs them at a higher temperature.
- 4. (previously presented): The process of claim 1 wherein the zeolite is part of an oxidation catalyst, the zeolite optionally comprising a noble metal of Group VIII of the periodic table of elements.
- 5. (previously presented): The process of claim 1 wherein the zeolite is part of a No_X reducing catalyst and/or of a No_X trap catalyst, the zeolite optionally comprising noble metal of Group VIII of the periodic table of elements and/or a non-noble metal of Group VIII of the periodic table and optionally an alkaline earth metal component such as barium.
- 6. (previously presented): The process of claim 1 wherein the zeolite is periodically subjected to a temperature above 350°C.
- 7. (withdrawn): A unit suitable for the treatment of exhaust gas according to the process of claim 1, which comprises a zeolite Y which has a unit cell size of 24.17-Page 2 of 6

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- 24.45 Å, a water adsorption capacity (p/p0 = 0.2, T=25°C) of at most 5 wt.%, and a silica-alumina molar ratio of at least 40.
- 8. (withdrawn): The unit of claim 7 which comprises a monolith at least part of the surface of which is coated with the zeolite.
- 9. (withdrawn): The unit of claim 7 which additionally comprises a Group VIII non-noble metal and/or a Group VIII noble metal, and/or an alkaline earth metal, and/or a Group I metal.
- 10. (currently amended): A process for the treatment of exhaust gas from a diesel engine, wherein the engine exhaust system is provided with a hydrocarbon adsorbent and/or an oxidation catalyst and/or a NO_X conversion catalyst and/or a NO_x trap catalyst, wherein the hydrocarbon adsorbent and/or the oxidation catalyst and/or the NO_X conversion catalyst and/or the NO_X trap catalyst comprise a zeolite Y which has a unit cell size of 24.17-24.45 Å, a water adsorption capacity (p/p0 = 0.2, T=25°C) of at most 5 wt.% and a <u>bulk</u> silica-alumina molar ratio of at least 40.
- 11. (previously presented): The process of claim 10 wherein the zeolite is periodically subjected to a temperature above 350°C.
- 12. (withdrawn): A unit suitable for the treatment of exhaust gas according to the process of claim 10, which comprises a zeolite Y which has a unit cell size of 24.17-24.45 Å, a water adsorption capacity (p/p0 = 0.2, T=25°C) of at most 5 wt.% and a silica-alumina molar ratio of at least 40.
- 13. (withdrawn): The unit of claim 12 which comprises a monolith at least part of the surface of which is coated with the zeolite.
- 14. (withdrawn): The unit of claim 12 which additionally comprises a Group VIII non-noble metal and/or a Group VIII noble metal, and/or an alkaline earth metal, and/or a Group I metal.

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